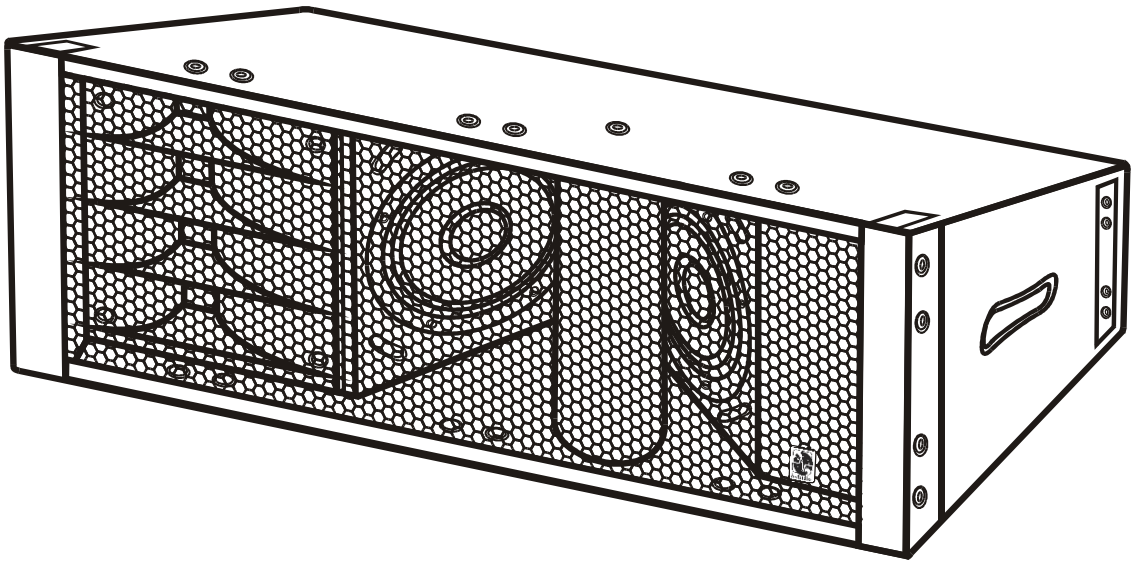
S Audio

Professional Loudspeaker

Mia Line Array



USER MANUAL

Professional Loudspeaker Technology

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Professional Loudspeakers

1. GENERAL INSTRUCTIONS

1) Do not use the speakers near water.
2) Clean only with dry cloth.
3) Do not block any ventilation slots. Install in accordance with the instructions.
4) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
5) Do not defeat the safety purpose of the polarized or grounding-type plug.
6) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
7) Only use attachments/accessories specified by the manufacturer.
8) Unplug this device during lightning storms or when unused for a long period.
9) Refer all servicing to qualified service personnel. Servicing is required when the speaker has been damaged in any way.

2. PRECAUTIONS

When first powering up a system including brand new cabinets, SAudio recommends a gradual, minimum power ramp up for one hour. This is to stabilize the components during the very first hours of usage. It is advisable to connect the loudspeakers only after all the other system components have been wired and are operating correctly. This is particularly important for amplifiers and the controller. It is advisable to turn down all the amplifiers' gains before connecting the cabinets and to turn them on again individually with a minimum level music source fed into the system. The sense Mia Array of the corresponding controller channel should light up accordingly. This will help to locate wiring errors, particularly Left to Right or LF to HF Sense line channel inversions which would disable the controller protection circuits and may invalidate the warranty.

This equipment can generate, use and radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- **A. Increase the separation between the equipment and receiver.**
- **B. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.**
- **C. Consult the dealer or an experienced radio/TV technician for help to identify and resolve radio/TV Interference Problems.**

3. SAFETY RECOMMENDATION

It is important that loudspeaker systems are used in a safe manner. Please take some time to review the following points concerning safe use of the SAudio loudspeakers. Professional loudspeakers are capable of producing extremely high sound levels and should be used with care. Hearing loss is cumulative and can result from levels above 90dB if people are exposed for a long period. Never stand close to loudspeakers driven at high level. Please follow the rules as below.

1. **Inspect all the components before assembly. Those affected should NOT be used.**
2. **Carefully read the assembly instructions shipped with each accessory.**
3. **Secondary safety steels must be installed once the system has been flown to operating height. Secondary steels must be fitted irrespective of the local safety standards applicable to the territory.**
4. **Deploy the flying accessories, please wear protective wears.**
5. **Do not allow inexperienced persons to handle flying systems. Installation**

personnel should be trained in loudspeaker flying techniques.

6. Ensure that public and personnel are not allowed to pass beneath the system during the installation process. The work area should be isolated from public access.
7. Stacking: Ensure that the floor or stage is level and solid. Do not stack speakers too high outdoors where winds could topple the stack. Be aware that speakers producing very high power levels can move or creep. To avoid this, place friction material between the floor and speaker and between each speaker.
8. Select proper cables with correct size and length. Cables which are too small would increase its serial resistance; which would induce power-loss and response variations (damping factor).

4. WARNING

Care should be taken to avoid amplifier clipping. It is important to understand that a low power amplifier driven into clipping is more likely to damage a loudspeaker than a higher power amplifier used within its ratings. This is because music signals have a high peak-to- average "crest" factor. When an amplifier is severely overdriven, its output waveform is clipped (its peaks are squared off) – reducing the crest factor. In extreme cases, the waveform can approach that of a square wave. An amplifier is normally capable of producing far more power under these conditions than its undistorted rated power output. The use of very high power amplifiers with outputs greater than those recommended is discouraged.

Care should be taken to avoid switch-on surges, which can result in momentary power peaks in excess of specified ratings. When powering up a sound system it is important to switch on the amplifiers after the mixer and control electronics have stabilized. When powering down the system, reverse the sequence and switch off the amplifiers first.

Also suspending the system should only be done by qualified personnel following safe rigging practices. Secure fixings to the building structure are vital. Seek help from architects, structural engineers or other specialists if in any doubt.

5. INTRODUCTION

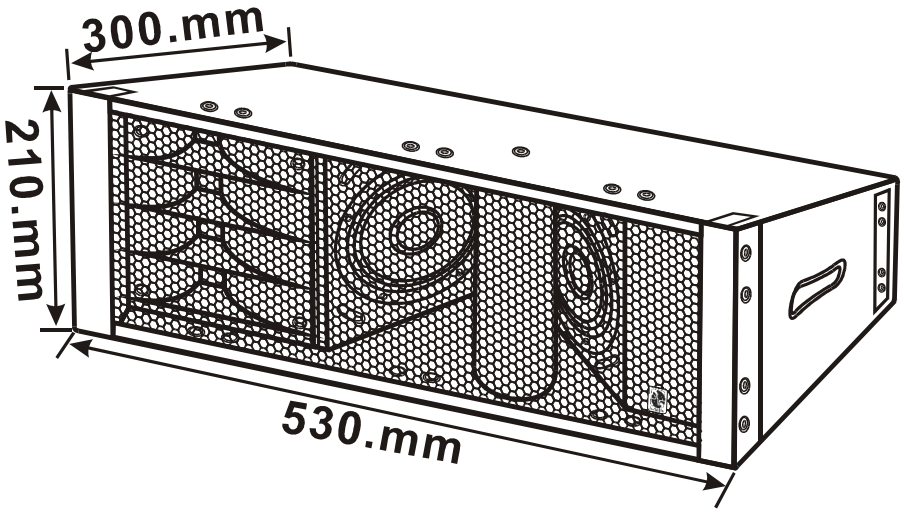
It is possible to use the Mia Array as a standalone full-range system, or full functional line array system starting with 4 Mia Array. The Mia Array is equipped with a 2 x 6.5" woofer for the low/mid frequency and 1"Compression Drive.

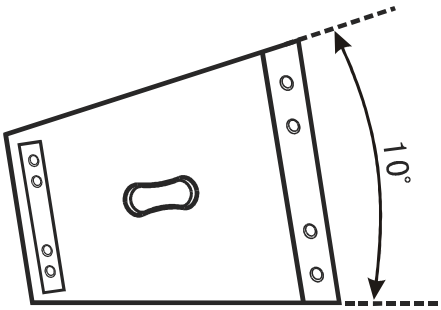
With the integrated flying system an array of Mia Array cabinets and the bass cabinet Mia Array can be easily combined to a line array by using quick release pins together with the front and rear connectors. The setting angle is adjustable from 0° to 10°in 1°steps through the defined holes in the flying hardware. For line array applications events the high frequency horn can be switched with the Speakon cable from the coaxial transducer to the line array driver.

The recommended bass cabinet for the Mia Array is the Mia Array. The Mia Array cabinet has the same width and uses the same flying hardware as the Mia Array. So the Mia Array could be used together with the Mia Array in a line array application, the Mia Array could also be used in the ground stack version of the Mia Array. Integrated SAudio flying system (Accessories optional): Front-links, rear-links, quick release pins, flying installing frame, adaptor plate for Mia Array.

6. TECHNICAL SPECIFICATIONS

Model:	**Mia Array**
Compression Driver:	**wave guide, 1” Throat, Ferrite**
Woofer:	**2 x 6.5” Neodymium mid/low woofer**
Power (RMS):	**250 W**
Impedance:	**8Ω**
Sensitivity(1W/m) f>100Hz:	**98dB**
Max sound Pressure at 1m: Line Array	**128dB**
Frequency response	**70Hz – 18KHz**
Directivity Line Array	**H 90° /V 10°**
Cabinet	**15mm plywood**
Accessory	**Integrated flying system**
Socket: Line Array	**2 x 4-Pin SPEAKON**
Dimensions (W x H x D) in cm	**53 x 21 x 30**
Net weight	**16 Kgs**





7. PROPER PRODUCT DISPOSAL

English

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with seperate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please seperate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Specification is subject to change without prior notice.